

```

NS100-HQ-NAT-> get conf
Total Config size 6229:
set url server 0.0.0.0 15868 10
set url message "NetScreen and NetPartners WebSENSE have been set to block this site."
set url msg-type 1
set url config disable
set auth type 0
set auth timeout 20
set admin name admin
set admin password admin
set admin sys-ip 0.0.0.0
set interface trust bandwidth 10000
set interface untrust bandwidth 10000
set interface dmz bandwidth 10000
set interface trust ip 149.172.209.10 255.255.255.0
set interface untrust ip 208.184.121.26 255.255.255.224
set interface dmz ip 149.172.208.1 255.255.255.0
set interface trust phy half 10mb
set interface untrust phy half 10mb
set interface trust ping
set interface untrust ping
set interface dmz ping
set interface trust mng
set interface untrust mng
set interface trust gateway 149.172.209.1
set interface untrust gateway 208.184.121.1
set flow tcp-mss
set hostname NS100-HQ-NAT
set address untrust "UK" 149.172.240.0 255.255.255.0
set address trust "PONG" 149.172.204.111 255.255.255.255 "pong.ikos.com"
set address dmz "Starfish" 149.172.208.88 255.255.255.255 "Rich Haney's Web Server"
set address dmz "sl" 149.172.208.100 255.255.255.255 "IKOS Public Web Server"
set address dmz "DMZ Subnet" 149.172.208.0 255.255.255.0
set service "RSH" protocol tcp src-port 0-1023 dst-port 514-514 group "remote"
set syn-alarm 1024
set syn-qsize 10240
set syn-timeout 20
set syn-threshold 200
set firewall tear-drop
set firewall syn-attack
unset firewall ip-spoofing
set firewall ping-of-death
set firewall src-route
set firewall land
set firewall icmp-flood
set firewall udp-flood
set firewall winnuke
set firewall port-scan
set firewall adr-sweep
set firewall default-deny
set syslog config 149.172.200.202 auth/sec auth/sec warn
set syslog enable
set vpn "HQ-UK" manual 4444 5555 gateway 195.14.71.226 esp 3des password letmein auth md5 password letmein
set mip 208.184.121.27 host 149.172.208.88 netmask 255.255.255.255
set mip 208.184.121.28 host 149.172.208.100 netmask 255.255.255.255
set policy todmz "Inside Any" "DMZ Any" "ANY" Permit log count
set policy fromdmz "DMZ Any" "Inside Any" "ANY" Permit log count
set policy fromdmz "DMZ Any" "MIP(208.184.121.27)" "ANY" Permit log
set policy incoming "Outside Any" "MIP(208.184.121.27)" "ANY" Permit log count
set policy incoming "Outside Any" "MIP(208.184.121.28)" "ANY" Permit log count
set policy outgoing "Inside Any" "UK" "ANY" Encrypt vpn-tunnel "HQ-UK"
set policy todmz "Outside Any" "DMZ Any" "DNS" Permit log count

```

FIREWALL HQ SETUP
APPENDIX A

```
set policy todmz "Outside Any" "DMZ Any" "FTP" Permit log count
set policy todmz "Outside Any" "DMZ Any" "HTTP" Permit log count
set policy todmz "Outside Any" "DMZ Any" "HTTPS" Permit log count
set policy todmz "Outside Any" "DMZ Any" "POP3" Permit log count
set policy todmz "Outside Any" "DMZ Any" "MAIL" Permit log count
set policy todmz "Outside Any" "DMZ Any" "PING" Permit log count
set policy outgoing "Inside Any" "MIP(208.184.121.27)" "ANY" Permit log
set policy outgoing "Inside Any" "MIP(208.184.121.28)" "ANY" Permit log
set policy outgoing "Inside Any" "Outside Any" "ANY" Permit log
set policy fromdmz "DMZ Any" "MIP(208.184.121.28)" "ANY" Permit log
set policy fromdmz "DMZ Any" "Outside Any" "ANY" Permit log count
set route 149.172.45.0 255.255.255.0 interface trust gateway 149.172.209.1 metric 1
set route 149.172.204.0 255.255.255.0 interface trust gateway 149.172.209.1 metric 1
set route 149.172.200.0 255.255.255.0 interface trust gateway 149.172.209.1 metric 1
set route 149.172.202.0 255.255.255.0 interface trust gateway 149.172.209.1 metric 1
set route 149.172.206.0 255.255.255.0 interface trust gateway 149.172.209.1 metric 1
set route 149.172.201.0 255.255.255.0 interface trust gateway 149.172.209.1 metric 1
set route 149.172.215.0 255.255.255.0 interface trust gateway 149.172.209.1 metric 1
set route 149.172.155.0 255.255.255.0 interface trust gateway 149.172.209.1 metric 1
set route 149.172.145.0 255.255.255.0 interface trust gateway 149.172.209.1 metric 1
set route 149.172.205.0 255.255.255.0 interface trust gateway 149.172.209.1 metric 1
set route 149.172.170.0 255.255.255.0 interface trust gateway 149.172.209.1 metric 1
NS100-HQ-NAT->
```

NS100-HQ-NAT->

```

IKOS-UK-> get conf
Total Config size 1390:
set url server 0.0.0.0 15868 10
set url message "NetScreen and NetPartners WebSENSE have been set to block this site."
set url msg-type 1
set url config disable
set auth type 0
set auth timeout 20
set clock ntp
set admin format dos
set admin name admin
set admin password admin
set admin sys-ip 0.0.0.0
set admin mail alert
set admin mail server-ip 149.172.200.202
set admin mail mail-addr1 mark@ikos.com
set admin mail mail-addr2 jj@ikos.com
set admin mail traffic-log
set interface trust ip 149.172.240.1 255.255.255.0
set interface untrust ip 195.14.71.226 255.255.255.248
set interface dmz ip 195.14.71.233 255.255.255.248
set interface trust ping
set interface untrust ping
set interface dmz ping
set interface trust mng
set interface untrust mng
set interface untrust gateway 195.14.71.225
set hostname IKOS-UK
set ntp server 149.172.204.111
set ntp zone 5
set address untrust "HQ-UK" 149.172.209.10 255.255.255.0
set syn-threshold 200
set firewall tear-drop
set firewall syn-attack
unset firewall ip-spoofing
set firewall ping-of-death
set firewall src-route
set firewall land
set firewall icmp-flood
set firewall udp-flood
set firewall winnuke
set firewall port-scan
set firewall adr-sweep
set firewall default-deny
set vpn "HQ-UK" manual 5555 4444 gateway 208.184.121.26 esp 3des password letmein auth md5 password letmein
set policy outgoing "Inside Any" "HQ-UK" "ANY" Encrypt vpn-tunnel "HQ-UK"
set policy outgoing "Inside Any" "Outside Any" "ANY" Permit
set syslog config 149.172.200.202 auth/sec auth/sec warn
set syslog enable
IKOS-UK->

```

DESTINATION FIREWALL SETUP
APPENDIX B

```
PRCC-IKOS-T1#sh conf
Using 2095 out of 29688 bytes
!
version 11.3
service timestamps debug uptime
service timestamps log uptime
service password-encryption
!
hostname PRCC-IKOS-T1
!
boot system flash 1:c2600-d-mz.113-6.T.bin
enable password 7 08324D401D18
!
ip subnet-zero
ip domain-list ikos.com
ip domain-list pacificresources.com
ip domain-name ikos.com
ip name-server 149.172.208.100
!
!
interface Ethernet0/0
ip address 208.184.121.25 255.255.255.224
ip broadcast-address 208.184.121.31
ip mask-reply
no ip directed-broadcast
no ip mroute-cache
!
interface Serial0/0
ip address 149.172.36.20 255.255.255.0
ip broadcast-address 149.172.36.255
ip mask-reply
no ip directed-broadcast
no ip mroute-cache
no fair-queue
!
interface Ethernet0/1
ip address 149.172.209.1 255.255.255.0
ip broadcast-address 149.172.209.255
ip mask-reply
no ip directed-broadcast
no ip mroute-cache
!
ip default-gateway 208.184.121.1
no ip classless
ip route 0.0.0.0 0.0.0.0 Ethernet0/0 208.184.121.1
ip route 149.172.0.0 255.255.0.0 Serial0/0 149.172.36.1 2
ip route 149.172.36.0 255.255.255.0 Serial0/0
ip route 149.172.145.0 255.255.255.0 Ethernet0/1 149.172.209.10 2
ip route 149.172.195.0 255.255.255.0 Ethernet0/1 149.172.209.10 2
ip route 149.172.204.0 255.255.255.0 Serial0/0 149.172.36.1
```

HQ ROUTER SETUP
APPENDIX C

```
ip route 149.172.208.0 255.255.255.0 Ethernet0/1 149.172.209.10
ip route 149.172.209.0 255.255.255.0 Ethernet0/1
ip route 149.172.210.0 255.255.255.0 Ethernet0/1 149.172.209.10 2
ip route 149.172.212.0 255.255.255.0 Ethernet0/1 149.172.209.10 2
ip route 149.172.220.0 255.255.255.0 Ethernet0/1 149.172.209.10 2
ip route 149.172.225.0 255.255.255.0 Ethernet0/1 149.172.209.10 2
ip route 149.172.235.0 255.255.255.0 Ethernet0/1 149.172.209.10 2
ip route 149.172.240.0 255.255.255.0 Ethernet0/1 149.172.209.10 2
ip route 149.172.245.0 255.255.255.0 Ethernet0/1 149.172.209.10 2
ip route 208.184.121.0 255.255.255.224 Ethernet0/0
```

!

```
no logging console
```

```
snmp-server community ikospub RO
```

```
snmp-server community ikospriv RW
```

!

```
line con 0
```

```
exec-timeout 0 0
```

```
line aux 0
```

```
line vty 0 4
```

```
exec-timeout 20 0
```

```
password 7 000A160300090509
```

```
login
```

```
no scheduler allocate
```

```
end
```

```

IKOS-UK#sh conf
Using 972 out of 32762 bytes
!
version 12.0
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
service udp-small-servers
service tcp-small-servers
!
hostname IKOS-UK
!
no logging buffered
enable password uk-47587
!
ip subnet-zero
ip domain-name ikos.com
ip name-server 149.172.204.101
ip name-server 149.172.208.100
clock timezone est -11
clock summer-time edt recurring
!
!
!
interface Ethernet0
ip address 195.14.71.225 255.255.255.248
ip broadcast-address 195.14.71.239
ip directed-broadcast
!
interface Serial0
bandwidth 384
no ip address
ip directed-broadcast
encapsulation ppp
shutdown
!
interface Serial1
bandwidth 384
ip address 195.14.66.98 255.255.255.252
ip directed-broadcast
!
ip classless
ip route 0.0.0.0 0.0.0.0 Serial1
!
snmp-server community public RO
!
line con 0
exec-timeout 0 0
transport input none
line aux 0
transport input all
line vty 0 4
exec-timeout 20 0
password int12getin
login
!
ntp clock-period 17179866
end

```

UK DESTINATION ROUTER SETUP
APPENDIX D